

1 WHAT IS CLAIMED IS:

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3       1. An anisotropically conductive sheet containing  
4 conductive particles exhibiting magnetism in a state  
5 oriented in a thickness-wise direction of the sheet in an  
6 elastic polymeric substance, wherein the durometer hardness  
7 of the elastic polymeric substance is 20 to 90, and a  
8 lubricant or parting agent is coated on the surfaces of the  
9 conductive particles.

1       2. The anisotropically conductive sheet according to  
2 Claim 1, wherein the amount of the lubricant or parting  
3 agent coated on the surfaces of the conductive particles is  
4 10/Dn to 150/Dn parts by mass per 100 parts by mass of the  
5 conductive particles, wherein Dn means the number average  
6 diameter ( $\mu\text{m}$ ) of the conductive particles.

1       3. The anisotropically conductive sheet according to  
2 Claim 1 or 2, wherein the lubricant or parting agent coated  
3 on the surfaces of the conductive particles is that  
4 containing silicone oil.

1       4. The anisotropically conductive sheet according to  
2 Claim 3, wherein the silicone oil contains fluorine atom(s)  
3 in its molecule.

1       5. The anisotropically conductive sheet according to

2 Claim 1 or 2, wherein the lubricant or parting agent  
3 applied to the surfaces of the conductive particles is a  
4 fluorine-containing lubricant or parting agent.

1         6. The anisotropically conductive sheet according to  
2 Claim 1 or 2, which comprises a plurality of conductive  
3 path-forming parts each closely containing the conductive  
4 particles and extending in the thickness-wise direction of  
5 the sheet, and insulating part(s) for insulating these  
6 conductive path-forming parts mutually.

1         7. The anisotropically conductive sheet according to  
2 Claim 4, which comprises a plurality of conductive path-  
3 forming parts each closely containing the conductive  
4 particles and extending in the thickness-wise direction of  
5 the sheet, and insulating part(s) for insulating these  
6 conductive path-forming parts mutually.

1         8. A process for producing an anisotropically  
2 conductive sheet, which comprises the steps of:  
3             coating the surfaces of conductive particles  
4 exhibiting magnetism with alubricant or parting agent,  
5             forming a sheet-forming material layer with the  
6 conductive particles coated with the lubricant or parting  
7 agent dispersed in a liquid material for the elastic  
8 polymeric substance, which will become an elastic polymeric  
9 substance by a curing treatment.

10 applying a magnetic field to the sheet-forming  
11 material layer in the thickness-wise direction thereof, and  
12 subjecting the sheet-forming material layer to the curing  
13 treatment.

1        9 An adapter for inspection of circuit devices,  
2 comprising a circuit board for inspection on the surface of  
3 which a plurality of electrodes for inspection has been  
4 formed in accordance with a pattern corresponding to  
5 electrodes to be inspected of a circuit device to be  
6 inspected, and the anisotropically conductive sheet  
7 according to any one of Claims 1, 2 and 4 integrally  
8 provided on a surface of the circuit board for inspection.

1        10. An adapter for inspection of circuit devices,  
2 comprising a circuit board for inspection on the surface of  
3 which a plurality of electrodes for inspection has been  
4 formed in accordance with a pattern corresponding to  
5 electrodes to be inspected of a circuit device to be  
6 inspected, and the anisotropically conductive sheet  
7 according to Claim 6 integrally provided on a surface of  
8 the circuit board for inspection.

1        11. An adapter for inspection of circuit devices,  
2 comprising a circuit board for inspection on the surface of  
3 which a plurality of electrodes for inspection has been  
4 formed in accordance with a pattern corresponding to

-5 electrodes to be inspected of a circuit device to be  
6 inspected, and the anisotropically conductive sheet  
7 according to Claim 7 integrally provided on a surface of  
8 the circuit board for inspection.

1       12. The adapter for inspection of circuit devices  
2 according to Claim 9, wherein at least a part of each of  
3 the electrodes for inspection in the circuit board for  
4 inspection is formed of a magnetic material.

1       13. The adapter for inspection of circuit devices  
2 according to Claim 10 or 11, wherein at least a part of  
3 each of the electrodes for inspection in the circuit board  
4 for inspection is formed of a magnetic material.

1       14. An inspection apparatus for circuit devices,  
2 comprising a circuit board for inspection on the surface of  
3 which a plurality of electrodes for inspection are formed  
4 in accordance with a pattern corresponding to electrodes to  
5 be inspected of a circuit device to be inspected, and the  
6 anisotropically conductive sheet according to any one of  
7 Claims 1, 2 and 4 interposed between the circuit board for  
8 inspection and the circuit device.

1       15. An inspection apparatus for circuit devices,  
2 comprising a circuit board for inspection on the surface of  
3 which a plurality of electrodes for inspection are formed

4 in accordance with a pattern corresponding to electrodes to  
5 be inspected of a circuit device to be inspected, and the  
6 anisotropically conductive sheet according to Claim 6  
7 interposed between the circuit board for inspection and the  
8 circuit device.

1 16. An inspection apparatus for circuit devices,  
2 comprising a circuit board for inspection on the surface of  
3 which a plurality of electrodes for inspection are formed  
4 in accordance with a pattern corresponding to electrodes to  
5 be inspected of a circuit device to be inspected, and the  
6 anisotropically conductive sheet according to Claim 7  
7 interposed between the circuit board for inspection and the  
8 circuit device.

1 17. An electronic part-packaged structure comprising  
2 a circuit board and an electronic part electrically  
3 connected to the circuit board through the anisotropically  
4 conductive sheet according to any one of Claims 1, 2 and 4.

1 18. An electronic part-packaged structure comprising  
2 a circuit board and an electronic part electrically  
3 connected to the circuit board through the anisotropically  
4 conductive sheet according to Claim 5.

1 19. An electronic part-packaged structure comprising  
2 a circuit board and an electronic part electrically

3 connected to the circuit board through the anisotropically  
4 conductive sheet according to Claim 6.

1        20. An electronic part-packaged structure comprising  
2 a circuit board and an electronic part electrically  
3 connected to the circuit board through the anisotropically  
4 conductive sheet according to Claim 7.